

Title (en)

DEVICE AND METHOD FOR THE ADJUSTMENT OF THE THICKNESS PROFILE IN THE PRODUCTION OF BLOWN FILMS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM EINSTELLEN DES DICKENPROFILS BEI DER HERSTELLUNG VON BLASFOLIEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE RÉGLAGE DU PROFIL D'ÉPAISSEUR DANS LA PRODUCTION DE FILMS SOUFFLÉS

Publication

**EP 3057764 A1 20160824 (EN)**

Application

**EP 14798988 A 20141014**

Priority

- IT MI20131702 A 20131015
- IB 2014065302 W 20141014

Abstract (en)

[origin: WO2015056173A1] A device arranged in the cooling ring of an apparatus for the production of blown films in order to adjust the thickness profile thereof comprises a plurality of equally spaced motor-driven actuators (5) that adjust the flow rate of the flow of a cooling fluid directed towards a forming cone (2), as well as a plurality of equally spaced resistances (11) provided with finned dissipators (12) arranged in the path of the cooling flow. In this way, the device combines the characteristics of low power consumption and high adjustment velocity of a volumetric device with the higher angular resolution achievable through the heating elements of a thermal device, and all of this with an operating method that prevents the risks of bubble instability or adhesion, achieves a high energy efficiency and guarantees a wide thickness adjustment range.

IPC 8 full level

**B29C 48/08** (2019.01); **B29C 48/94** (2019.01); **B29C 48/10** (2019.01); **B29C 48/92** (2019.01); **B29C 55/28** (2006.01)

CPC (source: EP US)

**B29C 48/08** (2019.01 - EP US); **B29C 48/10** (2019.01 - EP US); **B29C 48/2528** (2019.01 - EP US); **B29C 48/913** (2019.01 - EP US); **B29C 48/92** (2019.01 - EP US); **B29C 48/94** (2019.01 - EP); **B29C 55/28** (2013.01 - US); **B29C 55/28** (2013.01 - EP); **B29C 2948/926** (2019.01 - EP US); **B29C 2948/92704** (2019.01 - EP US); **B29C 2948/92971** (2019.01 - EP US); **B29L 2007/008** (2013.01 - US)

Citation (search report)

See references of WO 2015056173A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015056173 A1 20150423**; EP 3057764 A1 20160824; EP 3057764 B1 20210127; IT MI20131702 A1 20150416; US 10639837 B2 20200505; US 2016250792 A1 20160901

DOCDB simple family (application)

**IB 2014065302 W 20141014**; EP 14798988 A 20141014; IT MI20131702 A 20131015; US 201415028792 A 20141014